WBLE-SL ► UECM3463-202206-EZZ ► Quizzes ► 202206UECM34630E3b ► Review of preview							
Info Results Preview Edit							
202206UECM34630E3b							
Start again							
		Review of preview					
	Sunday, 14 August 2022, 04:56 PM Sunday, 14 August 2022, 04:56 PM						
Time taken	6 secs						
Grade	0 out of a maximum of 10 (0 %)						
1 ☑ Marks: 1	For a certain insurance, individual los each loss. Determine the standard de	ses in 2020 were Pareto distributed with parameters α = 3 and θ= 1400. A deductible of 140.0 is applied to each loss. In 2021, individual losses have increased 5%. A deductible of 140.0 is still applied applied to each loss. In 2021, individual losses have increased 5%. A deductible of 140.0 is still applied to each loss. In 2021, individual losses have increased 5%. A deductible of 140.0 is still applied to each loss. In 2021, individual losses have increased 5%. A deductible of 140.0 is still applied to each loss. In 2021, individual losses have increased 5%. A deductible of 140.0 is still applied to each loss. In 2021, individual losses have increased 5%. A deductible of 140.0 is still applied to each loss. In 2021, individual losses have increased 5%. A deductible of 140.0 is still applied to each loss.	d to				
	Answer:	x					
	Make comment or override grade Incorrect						
	Correct answer: 162593791 95						
	Marks for this submission	: 0/1.					
2 👺 Marks: 1							
	Answer:	X X					
	Make comment or override grade						
	Incorrect						
	Correct answer: 311.1 Marks for this submission	: 0/1.					
		·'					
3 🗑	You are given:						
Marks: 1	 Claim counts per year follow a negative binomial distribution with r = 2, β = 4.00. Claim sizes follow a Pareto distribution with a = 6, θ = 10290. Claim counts and claim sizes are independent. 						
	A stop-loss reinsurance contract reins	sures 100% of the losses above an aggregate limit u. Using the normal approximation, determine the u for which the probability that aggregate claims are greater than u is 5%.					
	Answer:	<u> </u>					
	Make comment or override grade						
	Incorrect Correct answer: 40876.538687 Marks for this submission	: 0/1.					
4 🗑 Marks: 1	Let the frequency distribution be neg	ative binomial with $r = 4$ and $\beta = 3$. Let the severity distribution has the exponential distribution with mean 27. Determine $F_S(34)$.					

	Answer:		X					
	Make comment or override grade							
	Incorrect Correct answer: 0.0269							
	Marks for this submission	: 0/1.						
	·							
5 🕏 Marks: 1	Claim sizes follow an exponential distribution with θ =4.50. Claim counts are independent of claim sizes, and have the following distribution: $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$							
	Calculate F _S (8)	[1][0.13]0123[0121[0107]						
	Answer:		X					
	Make comment or override grade							
	Incorrect							
	Correct answer: 0.800836 Marks for this submission	: 0/1.						
6 👺	A random variable has an exponential distribution with mean 20. It is to be discretized using the method of rounding with span 70. Determine the mean of the discretized distribution.							
Marks: 1								
	Answer:		X					
	Make comment or override grade							
	Incorrect Correct answer: 12.54294							
	Marks for this submission	: 0/1.						
7 Marks: 1	Prescription drug losses, S, are modeled assuming the number of claims has a geometric distribution with mean 10.00, and the amount of each prescription is 64. Calculate E[(S-160)+]							
	Answer:		X					
	Make comment or override grade							
	Incorrect Correct answer: 504.883546							
	Marks for this submission	: 0/1.						
8 ☑ Marks: 1	Claim counts follow a Poisson distribution with mean 3. Claim sizes follow an exponential distribution with $\theta = 600$. This severity distribution is discretized using the method of rounding with span 50. Claim counts and claim sizes are independent. A stop-loss reinsurance contract has a deductible of 130.0. Calculate expected losses paid by the reinsurance contract.							
	Answer:		× ·					
	Make comment or override grade							
	Incorrect							
	Correct answer: 1840 56937 84 Marks for this submission	: 0/1.						
9 👺	A company provides insurance to a co	ncert hall for losses due to power failure. You are given:						
Marks: 1		n a year has a Binomial distribution with parameters $m = 8$ and $q = 0.35$.						
	The distribution of loss amount Loss Amount 10 20 30 40							
	Probability 0.28 0.28 0.28 0.	16						
	There is an annual deductible or	f 22.						

Calculate the expected amount of clai	ms paid by the insurer in one year		
Answer:] x	
Make comment or override grade Incorrect Correct answer: 44.239649 Marks for this submission	: 0/1.		
A stop-loss reinsurance pays 80% of the excess of aggregate claims above 1,090, subject to maximum payment of 440. For aggregate claims, S, you are given: • E[(S-1,090) ₊] = 470 • E[(S-2,180) ₊] = 235 • The probability of an aggregate claim amount between 1,090 and 2,180 is zero. Determine the total amount of claims the reinsurer expects to pay			
Answer:] x	
Make comment or override grade Incorrect Correct answer: 94.862385 Marks for this submission	: 0/1.		
	Answer: Make comment or override grade Incorrect Correct answer: 44.239649 Marks for this submission A stop-loss reinsurance pays 80% of to E[(S-1,090)+] = 470 E[(S-2,180)+] = 235 The probability of an aggregate Determine the total amount of claims Answer: Make comment or override grade Incorrect Correct answer: 94.862385	Make comment or override grade Incorrect Correct answer: 44.239649 Marks for this submission: 0/1. A stop-loss reinsurance pays 80% of the excess of aggregate claims above 1,090, subject to maximum payment of 440. For aggregate claims, S, you are giv • E[(S-1,090)_+] = 470 • E[(S-2,180)_+] = 235 • The probability of an aggregate claim amount between 1,090 and 2,180 is zero. Determine the total amount of claims the reinsurer expects to pay Answer: Make comment or override grade Incorrect	

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